

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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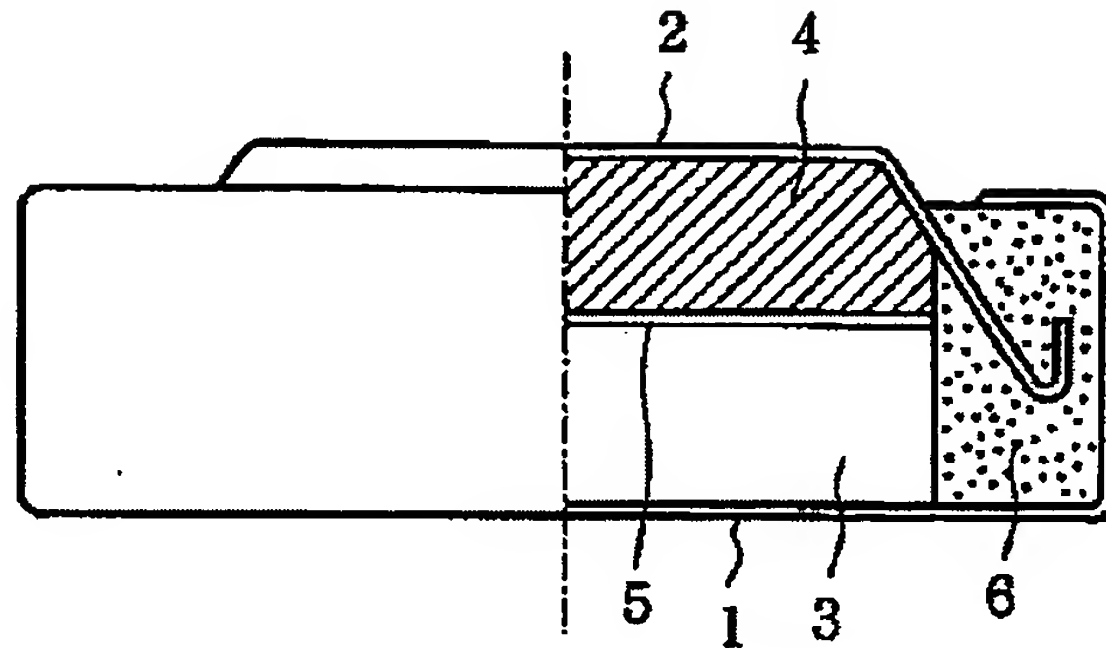
APPLICATION DATE : 30-03-00  
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APPLICANT : NISSHIN STEEL CO LTD;

INVENTOR : WATANABE EIJI;

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H01M 2/04

TITLE : ONE SIDE Ni PLATED STEEL SHEET  
HAVING HIGH LUSTER AND  
REDUCED CONTACT RESISTANCE  
FOR NEGATIVE AND POSITIVE POLE  
CANS OF LITHIUM BUTTON CELL



ABSTRACT : PROBLEM TO BE SOLVED: To provide a negative pole can and a positive pole can of lithium button cell having high glossiness and low contact resistance.

SOLUTION: In this lithium button cell can, an austenitic stainless steel excellent in workability is used as a base material for the negative pole can 2, and a relatively inexpensive ferritic stainless steel is used as a base material for the positive pole can 1. The surface roughness of each stainless steel is regulated to  $\leq 0.05 \mu\text{m Ra}$ , and a mat Ni plating layer of 0.01-0.3  $\mu\text{m}$  layer thickness is formed via a bright Ni plating layer on each stainless steel.

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